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830.1670 Discussion of formation of impurities

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830.1750 **Certified limits**

MRID	Citation Reference
46402001	Emmrich, R. (2004) Product Chemistry Data for Norm-1. Project Number: 340223. Unpublished study prepared by S.C. Johnson and Son, Inc. 43 p.
46406503	Sharp, J. (2004) Analysis and Certification of Product Ingredients of Deckmate Mosquito Repellent. Project Number: VAM/31A/002. Unpublished study prepared by Valent BioSciences Corporation. 19 p.
46406704	Todd, R. (2004) Certification of Ingredient Limits of S-1264 Technical Grade. Project Number: QAP/0035. Unpublished study prepared by Insect Control and Research Inc. 9 p.
46567702	Todd, R. (2005) Certification of Ingredient Limits of S-1264 Technical Grade: Amended Report to Replace MRID# 464067-04. Project Number: QAP/0035/A. Unpublished study prepared by Insect Control and Research, Inc. 9 p.
47137101	Maghasi, A. (2007) Product Chemistry Data for Norm-1 Formula Number 16535P125-1. Unpublished study prepared by S.C. Johnson and Son Inc. 56 p.
48579801	Kongshaug, P. (2011) Product Chemistry Data for Charger Formula Number 42754. Unpublished study prepared by S.C. Johnson & Son, Inc. 38p.
48677202	Jeffries, D. (2011) Analysis and Certification of Product Ingredients of VBC3. Unpublished study prepared by Valent BioScience Corporation. 31p.
48730602	Todd, R. (2011) Justification of Certified Limits for Sumione Technical Grade. Unpublished study prepared by ICR, Inc. 7p.
48757901	Nekmard, F. (2012) Product Chemistry Data for SGOL Formula Number 16931P81B. Unpublished study prepared by S.C. Johnson and Son, Inc. 48p.
48998602	Jeffries, D. (2012) Analysis and Certification of Product Ingredients of VBC3 Aerosol. Unpublished study prepared by Valent BioSciences Corp. 30p.
49102102	Weber, E. (2012) Analysis and Certification of Product Ingredients of ESD12101 Oil Concentrate. Project Number: ESD12101. Unpublished study prepared by Valent BioSciences Corp. 20p.
49143901	Volkert, N. (2013) Product Chemistry Data for Slinky Formula Number 46683. Unpublished study prepared by S.C. Johnson & Son, Inc. 39p.
49192501	Gilligan, A. (2013) Product Chemistry Data for San Diego Formula Number 48666. Unpublished study prepared by S.C. Johnson & Son, Inc. 42p.
49450101	Renner, T. (2014) Product Chemistry Data for Slinky Formula Number 46683. Unpublished study prepared by S.C. Johnson & Son, Inc. 39p.

830.1800 **Enforcement analytical method**

MRID	Citation Reference
46402001	Emmrich, R. (2004) Product Chemistry Data for Norm-1. Project Number: 340223. Unpublished study prepared by S.C. Johnson and Son, Inc. 43 p.

46406503 Sharp, J. (2004) Analysis and Certification of Product Ingredients of Deckmate Mosquito Repellent. Project Number: VAM/31A/002. Unpublished study prepared by Valent BioSciences Corporation. 19 p.

46406705 Inoue, H. (2002) Enforcement Analytical Methods of S-1264 Technical Grade: Final Report. Project Number: 3679, QAA/0009. Unpublished study prepared by Sumitomo Chemical Company, Ltd. 106 p.

47137101 Maghasi, A. (2007) Product Chemistry Data for Norm-1 Formula Number 16535P125-1. Unpublished study prepared by S.C. Johnson and Son Inc. 56 p.

47711602 Welch, K. (2009) Enforcement Analytical Method: (Norm 1). Project Number: ATRM/W/208650. Unpublished study prepared by S.C. Johnson & Son Inc. 10 p.

48431204 Inoue, H. (2007) Enforcement Analytical Methods of S-1264ZR Technical Grade: Final Report. Project Number: QAA/0029, 0017. Unpublished study prepared by Sumitomo Chemical Company, LTD. 167 p.

48579801 Kongshaug, P. (2011) Product Chemistry Data for Charger Formula Number 42754. Unpublished study prepared by S.C. Johnson & Son, Inc. 38p.

48677202 Jeffries, D. (2011) Analysis and Certification of Product Ingredients of VBC3. Unpublished study prepared by Valent BioScience Corporation. 31p.

48757901 Nekmard, F. (2012) Product Chemistry Data for SGOL Formula Number 16931P81B. Unpublished study prepared by S.C. Johnson and Son, Inc. 48p.

48998602 Jeffries, D. (2012) Analysis and Certification of Product Ingredients of VBC3 Aerosol. Unpublished study prepared by Valent BioSciences Corp. 30p.

49102102 Weber, E. (2012) Analysis and Certification of Product Ingredients of ESD12101 Oil Concentrate. Project Number: ESD12101. Unpublished study prepared by Valent BioSciences Corp. 20p.

49143901 Volkert, N. (2013) Product Chemistry Data for Slinky Formula Number 46683. Unpublished study prepared by S.C. Johnson & Son, Inc. 39p.

49192501 Gilligan, A. (2013) Product Chemistry Data for San Diego Formula Number 48666. Unpublished study prepared by S.C. Johnson & Son, Inc. 42p.

49450101 Renner, T. (2014) Product Chemistry Data for Slinky Formula Number 46683. Unpublished study prepared by S.C. Johnson & Son, Inc. 39p.

830.6302 **Color**

MRID	Citation Reference
46402002	Smith, G. (2004) Physical and Chemical Characteristics of Norm-1 Minus Substrate. Project Number: 6147P114/1B/A2, 508A2. Unpublished study prepared by S.C. Johnson and Son, Inc. 17 p.
46406706	Sweetapple, G.; Lentz, N. (2003) Determination of Physical-Chemical Properties of S-1264. Project Number: QAP/0020, 015682/1. Unpublished study prepared by Ricerca Biosciences, LLC. 44 p.
46454116	Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.
48677203	Mattox, M. (2011) Physical and Chemical Properties of Bedbug Control Concentrate. Project Number: VBCL/11/68060/46 CLMEBU11CONC/PC. Unpublished study prepared by Valent BioSciences Corporation. 54p.
48757902	Jutsum, P. (2012) Physical Chemical Testing Study for SGOL. Project Number: CEMS/5269, CEMS/5269/VERSION2, 702. Unpublished study prepared by CEM Analytical Services, Ltd., Chilworth Technology. 34p.

48998603 Weber, E. (2012) Physical and Chemical Properties of VBC3 Spray. Project Number: VBCL12/68060/61, CLMEBU12SPRAY/PC. Unpublished study prepared by Valent Biosciences Corp. 52p.

49102103 Weber, E. (2012) Physical and Chemical Properties of ESD12101 Oil Concentrate: (Product Chemistry Group B). Project Number: VBCL12/68060/55, ME4CONC/PC. Unpublished study prepared by Valent Biosciences Corp. 53p.

49143902 Wo, C. (2013) Slinky: Physical and Chemical Characteristics: Color, Physical State, Odor, Oxidation/Reduction, pH and Density/Relative Density. Project Number: 35464, SCJ/GLP/797, P801/SCJ. Unpublished study prepared by Eurofins/Product Safety Laboratories. 26p.

49641201 Jeffries, D. (2015) Product Chemistry of MGK Formula 3071. Project Number: GLP/2979. Unpublished study prepared by McLaughlin Gormley King Company. 7p.

49743901 Thompson, D. (2015) Product Chemistry of MGK Formula 30642 Revision 1. Project Number: GLP/2987. Unpublished study prepared by McLaughlin Gormley King Company. 5p.

830.6303 **Physical state**

MRID	Citation Reference
46402002	Smith, G. (2004) Physical and Chemical Characteristics of Norm-1 Minus Substrate. Project Number: 6147P114/1B/A2, 508A2. Unpublished study prepared by S.C. Johnson and Son, Inc. 17 p.
46406504	Reitz, G. (2004) Physical and Chemical Properties of SumiOne Paper Emanator. Project Number: VBC/ESD/2004/1/SC, V/27182/SC. Unpublished study prepared by Valent Dublin Laboratory. 7 p.
46406706	Sweetapple, G.; Lentz, N. (2003) Determination of Physical-Chemical Properties of S-1264. Project Number: QAP/0020, 015682/1. Unpublished study prepared by Ricerca Biosciences, LLC. 44 p.
46454116	Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.
48677203	Mattox, M. (2011) Physical and Chemical Properties of Bedbug Control Concentrate. Project Number: VBCL/11/68060/46 CLMEBU11CONC/PC. Unpublished study prepared by Valent BioSciences Corporation. 54p.
48757902	Jutsum, P. (2012) Physical Chemical Testing Study for SGOL. Project Number: CEMS/5269, CEMS/5269/VERSION2, 702. Unpublished study prepared by CEM Analytical Services, Ltd., Chilworth Technology. 34p.
48998603	Weber, E. (2012) Physical and Chemical Properties of VBC3 Spray. Project Number: VBCL12/68060/61, CLMEBU12SPRAY/PC. Unpublished study prepared by Valent Biosciences Corp. 52p.
49102103	Weber, E. (2012) Physical and Chemical Properties of ESD12101 Oil Concentrate: (Product Chemistry Group B). Project Number: VBCL12/68060/55, ME4CONC/PC. Unpublished study prepared by Valent Biosciences Corp. 53p.
49143902	Wo, C. (2013) Slinky: Physical and Chemical Characteristics: Color, Physical State, Odor, Oxidation/Reduction, pH and Density/Relative Density. Project Number: 35464, SCJ/GLP/797, P801/SCJ. Unpublished study prepared by Eurofins/Product Safety Laboratories. 26p.
49641201	Jeffries, D. (2015) Product Chemistry of MGK Formula 3071. Project Number: GLP/2979. Unpublished study prepared by McLaughlin Gormley King Company. 7p.
49743901	Thompson, D. (2015) Product Chemistry of MGK Formula 30642 Revision 1. Project Number: GLP/2987. Unpublished study prepared by McLaughlin Gormley King Company. 5p.

830.6304 **Odor**

MRID	Citation Reference
46402002	Smith, G. (2004) Physical and Chemical Characteristics of Norm-1 Minus Substrate. Project Number: 6147P114/1B/A2, 508A2. Unpublished study prepared by S.C. Johnson and Son, Inc. 17 p.
46406706	Sweetapple, G.; Lentz, N. (2003) Determination of Physical-Chemical Properties of S-1264. Project Number: QAP/0020, 015682/1. Unpublished study prepared by Ricerca Biosciences, LLC. 44 p.
46454116	Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.
48677203	Mattox, M. (2011) Physical and Chemical Properties of Bedbug Control Concentrate. Project Number: VBCL/11/68060/46 CLMEBU11CONC/PC. Unpublished study prepared by Valent BioSciences Corporation. 54p.
48757902	Jutsum, P. (2012) Physical Chemical Testing Study for SGOL. Project Number: CEMS/5269, CEMS/5269/VERSION2, 702. Unpublished study prepared by CEM Analytical Services, Ltd., Chilworth Technology. 34p.
48998603	Weber, E. (2012) Physical and Chemical Properties of VBC3 Spray. Project Number: VBCL12/68060/61, CLMEBU12SPRAY/PC. Unpublished study prepared by Valent Biosciences Corp. 52p.
49102103	Weber, E. (2012) Physical and Chemical Properties of ESD12101 Oil Concentrate: (Product Chemistry Group B). Project Number: VBCL12/68060/55, ME4CONC/PC. Unpublished study prepared by Valent Biosciences Corp. 53p.
49143902	Wo, C. (2013) Slinky: Physical and Chemical Characteristics: Color, Physical State, Odor, Oxidation/Reduction, pH and Density/Relative Density. Project Number: 35464, SCJ/GLP/797, P801/SCJ. Unpublished study prepared by Eurofins/Product Safety Laboratories. 26p.
49641201	Jeffries, D. (2015) Product Chemistry of MGK Formula 3071. Project Number: GLP/2979. Unpublished study prepared by McLaughlin Gormley King Company. 7p.
49743901	Thompson, D. (2015) Product Chemistry of MGK Formula 30642 Revision 1. Project Number: GLP/2987. Unpublished study prepared by McLaughlin Gormley King Company. 5p.

830.6313 **Stability to normal and elevated temperatures, metals, and metal ions**

MRID	Citation Reference
46406712	Inoue, H. (2004) Stability of S-1264 Technical Grade to Normal and Elevated Temperatures, Metals and Metal Ions: Final Report. Project Number: 0007, QAP/0024. Unpublished study prepared by Sumitomo Chemical Co. Ltd., Envr. Health. 15 p.
46454102	Nishiyama, M.; Katagi, T.; Takimoto, Y. (2004) Stability in Air of MFFO. Project Number: STA2004B, EF/2004/033, QAP/0031. Unpublished study prepared by Sumitomo Chemical Co. 8 p.
46454103	Nishyama, M.; Katagi, Takimoto, Y. (2004) Stability in Air of S-1264. Project Number: STA2004A, EF/2004/032, QAP/0032. Unpublished study prepared by Sumitomo Chemical Co. 9 p.
48677203	Mattox, M. (2011) Physical and Chemical Properties of Bedbug Control Concentrate. Project Number: VBCL/11/68060/46 CLMEBU11CONC/PC. Unpublished study prepared by Valent BioSciences Corporation. 54p.

48998603 Weber, E. (2012) Physical and Chemical Properties of VBC3 Spray. Project Number: VBCL12/68060/61, CLMEBU12SPRAY/PC. Unpublished study prepared by Valent Biosciences Corp. 52p.

49102103 Weber, E. (2012) Physical and Chemical Properties of ESD12101 Oil Concentrate: (Product Chemistry Group B). Project Number: VBCL12/68060/55, ME4CONC/PC. Unpublished study prepared by Valent Biosciences Corp. 53p.

830.6314 Oxidizing or reducing action

MRID	Citation Reference
46406504	Reitz, G. (2004) Physical and Chemical Properties of SumiOne Paper Emanator. Project Number: VBC/ESD/2004/1/SC, V/27182/SC. Unpublished study prepared by Valent Dublin Laboratory. 7 p.
46406706	Sweetapple, G.; Lentz, N. (2003) Determination of Physical-Chemical Properties of S-1264. Project Number: QAP/0020, 015682/1. Unpublished study prepared by Ricerca Biosciences, LLC. 44 p.
46454116	Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.
48757902	Jutsum, P. (2012) Physical Chemical Testing Study for SGOL. Project Number: CEMS/5269, CEMS/5269/VERSION2, 702. Unpublished study prepared by CEM Analytical Services, Ltd., Chilworth Technology. 34p.
49143902	Wo, C. (2013) Slinky: Physical and Chemical Characteristics: Color, Physical State, Odor, Oxidation/Reduction, pH and Density/Relative Density. Project Number: 35464, SCJ/GLP/797, P801/SCJ. Unpublished study prepared by Eurofins/Product Safety Laboratories. 26p.

830.6315 Flammability

MRID	Citation Reference
46402002	Smith, G. (2004) Physical and Chemical Characteristics of Norm-1 Minus Substrate. Project Number: 6147P114/1B/A2, 508A2. Unpublished study prepared by S.C. Johnson and Son, Inc. 17 p.
46406706	Sweetapple, G.; Lentz, N. (2003) Determination of Physical-Chemical Properties of S-1264. Project Number: QAP/0020, 015682/1. Unpublished study prepared by Ricerca Biosciences, LLC. 44 p.
46454116	Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.
48677203	Mattox, M. (2011) Physical and Chemical Properties of Bedbug Control Concentrate. Project Number: VBCL/11/68060/46 CLMEBU11CONC/PC. Unpublished study prepared by Valent BioSciences Corporation. 54p.
48757902	Jutsum, P. (2012) Physical Chemical Testing Study for SGOL. Project Number: CEMS/5269, CEMS/5269/VERSION2, 702. Unpublished study prepared by CEM Analytical Services, Ltd., Chilworth Technology. 34p.
48998603	Weber, E. (2012) Physical and Chemical Properties of VBC3 Spray. Project Number: VBCL12/68060/61, CLMEBU12SPRAY/PC. Unpublished study prepared by Valent Biosciences Corp. 52p.
49102103	Weber, E. (2012) Physical and Chemical Properties of ESD12101 Oil Concentrate: (Product Chemistry Group B). Project Number: VBCL12/68060/55, ME4CONC/PC. Unpublished study prepared by Valent Biosciences Corp. 53p.

49641201 Jeffries, D. (2015) Product Chemistry of MGK Formula 3071. Project Number: GLP/2979. Unpublished study prepared by McLaughlin Gormley King Company. 7p.

49743901 Thompson, D. (2015) Product Chemistry of MGK Formula 30642 Revision 1. Project Number: GLP/2987. Unpublished study prepared by McLaughlin Gormley King Company. 5p.

830.6316 Explodability

MRID	Citation Reference
46406706	Sweetapple, G.; Lentz, N. (2003) Determination of Physical-Chemical Properties of S-1264. Project Number: QAP/0020, 015682/1. Unpublished study prepared by Ricerca Biosciences, LLC. 44 p.
46454116	Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.

830.6317 Storage stability

MRID	Citation Reference
46406715	Inoue, H. (2004) Storage Stability of S-1264 Technical Grade: Final Report. Project Number: 0001, QAP/0025. Unpublished study prepared by Sumitomo Chemical Co. Ltd., Envr. Health. 54 p.
46454116	Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.
46876301	Reitz, G. (2006) Shelf-Life Storage Stability and Corrosion Characteristics of SumiOne Paper Emanator: One Year Interim Report. Project Number: VBC/ESD/2004/2, V/27191. Unpublished study prepared by Valent Dublin Laboratory. 59 p.
47725001	Lawrence, Q. (2009) Storage Stability and Corrosion Characteristics Testing of Norm-1: Final Report. Project Number: 310823/1/007/02/01, 583, MRI/PSD/R310823/07/02. Unpublished study prepared by Midwest Research Institute. 38 p.
48431205	Inoue, H. (2007) Accelerated Storage Stability of S-1264ZR Technical Grade: Final Report. Project Number: QAP/0039, 0018. Unpublished study prepared by Sumitomo Chemical Company, LTD. 52 p.
49041501	Weber, E. (2012) Shelf-Life Storage Stability and Corrosion Characteristics of VBC3 Concentrate. Project Number: VBCL11/68060/48, CLMEBU11CONC/SS/CC. Unpublished study prepared by Valent Biosciences Corp. 81p.
49070001	Jutsum, P. (2012) Accelerated and Long-Term Storage Stability Study on Charger - Plate Formulation. Project Number: CEMS/4924, 691/OCR. Unpublished study prepared by CEM Analytical Services, Ltd. 54p.
49256601	Wo, C. (2013) Accelerated Storage Stability and Corrosion Characteristics: Slinky. Project Number: 35455, SCJ/GLP/797, P802/SCJ. Unpublished study prepared by Eurofins/Product Safety Laboratories. 36p.
49406201	Weber, E. (2013) Shelf-Life Storage Stability and Corrosion Characteristics of ESD 12101 Oil Concentrate. Project Number: ME4CONC/SS/CC, VBCL12/68060/56, V0630. Unpublished study prepared by Valent Biosciences Corp. 86p.
49408301	Weber, E. (2013) Shelf-Life Storage Stability and Corrosion Characteristics of VBC3 Aerosol. Project Number: CLMEBU12AEROSOL/SS/CC, VBCL/12/68060/63. Unpublished study prepared by Valent Biosciences Corp. 82p.

49920301 Jeffries, D. (2016) Storage Stability Evalution of MGK Formula 30643. Project Number: GLP/2944,. Unpublished study prepared by McLaughlin Gormley King Company. 22p.

830.6319 **Miscibility**

MRID	Citation Reference
46406706	Sweetapple, G.; Lentz, N. (2003) Determination of Physical-Chemical Properties of S-1264. Project Number: QAP/0020, 015682/1. Unpublished study prepared by Ricerca Biosciences, LLC. 44 p.
46454116	Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.
49102103	Weber, E. (2012) Physical and Chemical Properties of ESD12101 Oil Concentrate: (Product Chemistry Group B). Project Number: VBCL12/68060/55, ME4CONC/PC. Unpublished study prepared by Valent Biosciences Corp. 53p.
49641201	Jeffries, D. (2015) Product Chemistry of MGK Formula 3071. Project Number: GLP/2979. Unpublished study prepared by McLaughlin Gormley King Company. 7p.
49743901	Thompson, D. (2015) Product Chemistry of MGK Formula 30642 Revision 1. Project Number: GLP/2987. Unpublished study prepared by McLaughlin Gormley King Company. 5p.

830.6320 **Corrosion characteristics**

MRID	Citation Reference
46406716	Inoue, H. (2004) Corrosion Characteristics of S-1264 Technical Grade: Final Report. Project Number: 0002, QAP/0026. Unpublished study prepared by Sumitomo Chemical Co., Ltd. 11 p.
46454116	Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.
46876301	Reitz, G. (2006) Shelf-Life Storage Stability and Corrosion Characteristics of SumiOne Paper Emanator: One Year Interim Report. Project Number: VBC/ESD/2004/2, V/27191. Unpublished study prepared by Valent Dublin Laboratory. 59 p.
47725001	Lawrence, Q. (2009) Storage Stability and Corrosion Characteristics Testing of Norm-1: Final Report. Project Number: 310823/1/007/02/01, 583, MRI/PSD/R310823/07/02. Unpublished study prepared by Midwest Research Institute. 38 p.
49041501	Weber, E. (2012) Shelf-Life Storage Stability and Corrosion Characteristics of VBC3 Concentrate. Project Number: VBCL11/68060/48, CLMEBU11CONC/SS/CC. Unpublished study prepared by Valent Biosciences Corp. 81p.
49256601	Wo, C. (2013) Accelerated Storage Stability and Corrosion Characteristics: Slinky. Project Number: 35455, SCJ/GLP/797, P802/SCJ. Unpublished study prepared by Eurofins/Product Safety Laboratories. 36p.
49406201	Weber, E. (2013) Shelf-Life Storage Stability and Corrosion Characteristics of ESD 12101 Oil Concentrate. Project Number: ME4CONC/SS/CC, VBCL12/68060/56, V0630. Unpublished study prepared by Valent Biosciences Corp. 86p.
49408301	Weber, E. (2013) Shelf-Life Storage Stability and Corrosion Characteristics of VBC3 Aerosol. Project Number: CLMEBU12AEROSOL/SS/CC, VBCL/12/68060/63. Unpublished study prepared by Valent Biosciences Corp. 82p.

49920301 Jeffries, D. (2016) Storage Stability Evaluation of MGK Formula 30643. Project Number: GLP/2944,. Unpublished study prepared by McLaughlin Gormley King Company. 22p.

830.7000 pH

MRID	Citation Reference
46406706	Sweetapple, G.; Lentz, N. (2003) Determination of Physical-Chemical Properties of S-1264. Project Number: QAP/0020, 015682/1. Unpublished study prepared by Ricerca Biosciences, LLC. 44 p.
46454116	Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.
48677203	Mattox, M. (2011) Physical and Chemical Properties of Bedbug Control Concentrate. Project Number: VBCL/11/68060/46 CLMEBU11CONC/PC. Unpublished study prepared by Valent BioSciences Corporation. 54p.
48757902	Jutsum, P. (2012) Physical Chemical Testing Study for SGOL. Project Number: CEMS/5269, CEMS/5269/VERSION2, 702. Unpublished study prepared by CEM Analytical Services, Ltd., Chilworth Technology. 34p.
48998603	Weber, E. (2012) Physical and Chemical Properties of VBC3 Spray. Project Number: VBCL12/68060/61, CLMEBU12SPRAY/PC. Unpublished study prepared by Valent Biosciences Corp. 52p.
49102103	Weber, E. (2012) Physical and Chemical Properties of ESD12101 Oil Concentrate: (Product Chemistry Group B). Project Number: VBCL12/68060/55, ME4CONC/PC. Unpublished study prepared by Valent Biosciences Corp. 53p.
49143902	Wo, C. (2013) Slinky: Physical and Chemical Characteristics: Color, Physical State, Odor, Oxidation/Reduction, pH and Density/Relative Density. Project Number: 35464, SCJ/GLP/797, P801/SCJ. Unpublished study prepared by Eurofins/Product Safety Laboratories. 26p.
49641201	Jeffries, D. (2015) Product Chemistry of MGK Formula 3071. Project Number: GLP/2979. Unpublished study prepared by McLaughlin Gormley King Company. 7p.
49743901	Thompson, D. (2015) Product Chemistry of MGK Formula 30642 Revision 1. Project Number: GLP/2987. Unpublished study prepared by McLaughlin Gormley King Company. 5p.

830.7050 UV/Visible absorption

MRID	Citation Reference
46406707	Sweetapple, G.; Lentz, N. (2004) Determination of UV/Visible Absorption and Boiling Point of S-1264. Project Number: 015681/1, 015681. Unpublished study prepared by Ricerca Biosciences, LLC. 36 p.
46414001	Sweetapple, G.; Lentz, N. (2003) Determination of UV/Visible Absorption and Boiling Point of S-1264. Project Number: QAP/0022, 015681/1, 015681/0. Unpublished study prepared by Ricerca Biosciences, LLC. 36 p.

830.7100 Viscosity

MRID	Citation Reference
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46402002 Smith, G. (2004) Physical and Chemical Characteristics of Norm-1 Minus Substrate. Project Number: 6147P114/1B/A2, 508A2. Unpublished study prepared by S.C. Johnson and Son, Inc. 17 p.

46406706 Sweetapple, G.; Lentz, N. (2003) Determination of Physical-Chemical Properties of S-1264. Project Number: QAP/0020, 015682/1. Unpublished study prepared by Ricerca Biosciences, LLC. 44 p.

46454116 Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.

48677203 Mattox, M. (2011) Physical and Chemical Properties of Bedbug Control Concentrate. Project Number: VBCL/11/68060/46 CLMEBU11CONC/PC. Unpublished study prepared by Valent BioSciences Corporation. 54p.

48757902 Jutsum, P. (2012) Physical Chemical Testing Study for SGOL. Project Number: CEMS/5269, CEMS/5269/VERSION2, 702. Unpublished study prepared by CEM Analytical Services, Ltd., Chilworth Technology. 34p.

48998603 Weber, E. (2012) Physical and Chemical Properties of VBC3 Spray. Project Number: VBCL12/68060/61, CLMEBU12SPRAY/PC. Unpublished study prepared by Valent Biosciences Corp. 52p.

49102103 Weber, E. (2012) Physical and Chemical Properties of ESD12101 Oil Concentrate: (Product Chemistry Group B). Project Number: VBCL12/68060/55, ME4CONC/PC. Unpublished study prepared by Valent Biosciences Corp. 53p.

49641201 Jeffries, D. (2015) Product Chemistry of MGK Formula 3071. Project Number: GLP/2979. Unpublished study prepared by McLaughlin Gormley King Company. 7p.

49743901 Thompson, D. (2015) Product Chemistry of MGK Formula 30642 Revision 1. Project Number: GLP/2987. Unpublished study prepared by McLaughlin Gormley King Company. 5p.

830.7200 Melting point/melting range

MRID	Citation Reference
46406718	Lentz, N. (2004) Determination of Freezing Point, Solvent Solubility, Absorption Spectra and Autoflammability of S-1264. Project Number: QAP/0030, 016369/1, 016369/0. Unpublished study prepared by Ricerca Biosciences, LLC. 72 p.

830.7220 Boiling point/boiling range

MRID	Citation Reference
46406707	Sweetapple, G.; Lentz, N. (2004) Determination of UV/Visible Absorption and Boiling Point of S-1264. Project Number: 015681/1, 015681. Unpublished study prepared by Ricerca Biosciences, LLC. 36 p.
46414001	Sweetapple, G.; Lentz, N. (2003) Determination of UV/Visible Absorption and Boiling Point of S-1264. Project Number: QAP/0022, 015681/1, 015681/0. Unpublished study prepared by Ricerca Biosciences, LLC. 36 p.

830.7300 Density/relative density

MRID	Citation Reference
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46402002 Smith, G. (2004) Physical and Chemical Characteristics of Norm-1 Minus Substrate. Project Number: 6147P114/1B/A2, 508A2. Unpublished study prepared by S.C. Johnson and Son, Inc. 17 p.

46406504 Reitz, G. (2004) Physical and Chemical Properties of SumiOne Paper Emanator. Project Number: VBC/ESD/2004/1/SC, V/27182/SC. Unpublished study prepared by Valent Dublin Laboratory. 7 p.

46406706 Sweetapple, G.; Lentz, N. (2003) Determination of Physical-Chemical Properties of S-1264. Project Number: QAP/0020, 015682/1. Unpublished study prepared by Ricerca Biosciences, LLC. 44 p.

46454116 Todd, R. (2004) Summary of Physical/Chemical Properties: (Sumione Technical Grade). Project Number: 8570/36. Unpublished study prepared by Insect Control and Research, Inc. 5 p.

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830.7370 Dissociation constants in water

MRID	Citation Reference
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830.7550 Partition coefficient (n-octanol/water), shake flask method

MRID	Citation Reference
46406711	Walsh, K.; Lentz, N. (2003) Determination of n-Octanol/Water Partition Coefficient - S-1264. Project Number: 015633/1, QAP/0023, 015633/0/1. Unpublished study prepared by Ricerca Biosciences, LLC. 86 p.

830.7570 Partition coefficient (n-octanol/water), estimation by liquid chromatography

MRID	Citation Reference
46406711	Walsh, K.; Lentz, N. (2003) Determination of n-Octanol/Water Partition Coefficient - S-1264. Project Number: 015633/1, QAP/0023, 015633/0/1. Unpublished study prepared by Ricerca Biosciences, LLC. 86 p.

830.7840 Water solubility: Column elution method, shake flask method

MRID	Citation Reference
46406708	Walsh, K.; Lentz, N. (2003) Determination of Water Solubility - S-1264. Project Number: 015634/1, QAP/0019, 015634. Unpublished study prepared by Ricerca Biosciences, LLC. 112 p.
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830.7950 Vapor pressure

MRID	Citation Reference
46454101	DiFrancesco, D.; Lentz, N. (2004) Determination of Vapor Pressure - S-1264. Project Number: 015632/1, QAP/0028. Unpublished study prepared by Ricerca Biosciences, LLC. 82 p.

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MRID	Citation Reference
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835.2110 Hydrolysis as a function of pH

MRID	Citation Reference
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835.6100 Terrestrial field dissipation

MRID	Citation Reference
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850.1010 Aquatic invertebrate acute toxicity, test, freshwater daphnids

MRID	Citation Reference
46406762	Putt, A. (2004) S-1264 - Acute Toxicity to Water Fleas (<i>Daphnia magna</i>) Under Flow-Through Conditions. Project Number: 13048/6397, QAW/0006. Unpublished study prepared by Springborn Smithers Laboratories. 53 p.

850.1075 Fish acute toxicity test, freshwater and marine

MRID	Citation Reference
46406761	Lima, W. (2004) S-1264 - Acute Toxicity to Rainbow Trout (<i>Oncorhynchus mykiss</i>) Under Flow-Through Conditions. Project Number: 13048/6398, QAW/0007. Unpublished study prepared by Springborn Smithers Laboratories. 51 p.
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850.2300 Avian reproduction test

MRID	Citation Reference
50310901	Habig, C. (2017) Metofluthrin: Waiver Request for Avian Reproduction Testing with Bobwhite Quail. Project Number: 650/0010122016/02. Unpublished study prepared by Compliance Services International. 15p.

850.3020 Honey bee acute contact toxicity

MRID	Citation Reference
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850.4500 Algal Toxicity

MRID	Citation Reference
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50338901 Habig, C. (2017) Metofluthrin: Waiver Request for Testing with Diatoms and Cyanobacteria. Project Number: 650/001/072016/03, 13048/6339, 13048/6441. Unpublished study prepared by Compliance Services International. 16p.

850.4550 **Cyanobacteria (Anabaena flos-aquae) Toxicity**

MRID	Citation Reference
50338901	Habig, C. (2017) Metofluthrin: Waiver Request for Testing with Diatoms and Cyanobacteria. Project Number: 650/001/072016/03, 13048/6339, 13048/6441. Unpublished study prepared by Compliance Services International. 16p.

870.1100 **Acute oral toxicity**

MRID	Citation Reference
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48677204	Lowe, C. (2011) VB3C Concentrate: Acute Oral Toxicity Up and Down Procedure in Rats. Project Number: 32281 VBC/58215 P320/UDP. Unpublished study prepared by Eurofins/Product Safety Laboratories. 28p.
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870.1200 **Acute dermal toxicity**

MRID	Citation Reference
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870.1300 Acute inhalation toxicity

MRID	Citation Reference
46406501	Creek, M. (2004) Acute Toxicity Waiver Request for DeckMate Mosquito Repellent Strip Containing the Active Ingredient Metofluthrin (S-1264). Unpublished study prepared by Valent U.S.A. Corporation. 6 p.
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870.2400 Acute eye irritation

MRID	Citation Reference
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870.2500 Acute dermal irritation

MRID	Citation Reference
46406501	Creek, M. (2004) Acute Toxicity Waiver Request for DeckMate Mosquito Repellent Strip Containing the Active Ingredient Metofluthrin (S-1264). Unpublished study prepared by Valent U.S.A. Corporation. 6 p.
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870.2600 Skin sensitization

MRID	Citation Reference
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870.3100 90-Day oral toxicity in rodents

MRID	Citation Reference
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870.3150 90-day oral toxicity in nonrodents

MRID	Citation Reference
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870.3250 90-day dermal toxicity

MRID	Citation Reference
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870.3465 90-day inhalation toxicity

MRID	Citation Reference
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870.3700 Prenatal developmental toxicity study

MRID	Citation Reference
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46454113	Hara, H.; Suyama, S.; Ushimaru, T.; et. al. (2002) Study for Effects on Pre - and Postnatal Development, Including Material Function, of S-1264 Administered Orally to Rats. Project Number: ST01084, QAT/0020. Unpublished study prepared by Ina Research Inc. 274 p.
46454114	Horie, N. (2002) Study for Effects on Embryo-fetal Development of S-1264 Administered Orally to Rabbits: Final Report. Project Number: QAT/0019, 3644. Unpublished study prepared by Sumitomo Chemical Co. Ltd., Envr. Health. 241 p.

870.3800 Reproduction and fertility effects

MRID	Citation Reference
48770701	Hoberman, A. (2005) Oral (Diet) Two-generation (One Litter per Generation) Reproduction Study of S-1264 in Rats: Final Report. Project Number: 1119/031/OCR. Unpublished study prepared by Charles River Laboratories, Research Pathology Services and CR-DDS Argus Division. 1671 p.

870.4100 Chronic toxicity

MRID	Citation Reference
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870.4200 Carcinogenicity

MRID	Citation Reference
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870.4300 Combined chronic toxicity/carcinogenicity

MRID	Citation Reference
46611301	Schmid, H.; Flade, D.; Gretener, P.; et. al. (2005) S-1264: Combined Chronic Toxicity/Oncogenicity (Feeding) Study in the Rat. Project Number: 846244, QUAT/0078, 41708/WEK. Unpublished study prepared by RCC Umweltchemie Ag. 3741 p. Relates to L0000976.
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870.5100 Bacterial reverse mutation test

MRID	Citation Reference
46406742	Kitamoto, S. (2002) Reverse Mutation Test of S-1264 in Bacterial Systems: Final Report. Project Number: 3673, QAT/0026. Unpublished study prepared by Sumitomo Chemical Co. Ltd., Envr. Health. 18 p.
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870.5200 Mouse visible specific locus test

MRID	Citation Reference
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870.5375 In vitro mammalian chromosome aberration test

MRID	Citation Reference
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870.5395 Mammalian erythrocyte micronucleus test

MRID	Citation Reference
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870.6200 Neurotoxicity screening battery

MRID	Citation Reference
46406728	York, R. (2004) Oral (Gavage) Acute Neurotoxicity Study of S-1264 in Rats: Final Report. Project Number: 1119/032, QAT/0059, PACA/DE04. Unpublished study prepared by Argus Research Laboratories, Inc and Pathology Associates, Inc. 451 p.
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47782401	Todd, R. (2009) An Acute FOB Comparison Study with Sumitomo Pyrethroids in Rats. Project Number: WIL/118040D/2009. Unpublished study prepared by ICR, Inc. 10 p.
47872601	Herberth, M. (2009) Protocol - An Oral (Gavage) Acute Neurotoxicity Comparison Study in Rats: (Cyphenothrin, Imiprothrin, Prallethrin, Metofluthrin, Deltamethrin and Pynamin Forte). Project Number: WIL/118041. Unpublished study prepared by WIL Research Laboratories, Inc. 23 p.

870.7485 Metabolism and pharmacokinetics

MRID	Citation Reference
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870.7600 Dermal penetration

MRID	Citation Reference
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875.2500 Inhalation exposure

MRID	Citation Reference
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810.3700 Insect Repellents for Human Skin and Outdoor Premises

MRID	Citation Reference
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870.3050 Repeated dose 28-day oral toxicity in rodents

MRID	Citation Reference
46406731	Kunimatsu, T. (2002) One-Month Oral Toxicity Study of S-1264 in Rats: Final Report. Project Number: 3641, QAT/0029, P01063. Unpublished study prepared by Sumitomo Chemical Co. Ltd., Envr. Health. 432 p.

810.3700 Insect Repellents for Human Skin and Outdoor Premises

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